



PATENT ABSTRACTS OF JAPAN

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JIGYODAN NORIN SUIANSYO
NOGYO SEIBUTSU SHIGEN
KENKYUSHO**(72) Inventor: **KAWASAKI SHINJI****(54) NEW LARGE-CAPACITY BINARY SHUTTLE VECTOR**

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain the subject new vector composed of a large-capacity binary shuttle vector containing a T-DNA region and a replication origin having Ri and RK2 and useful for the transformation of a monocotyledon, complementation test analysis of genom function, search for useful gene, etc.

SOLUTION: This new large-capacity binary shuttle vector contains a T-DNA region and a replication origin having Ri and RK2 and is useful for the transformation of a

seed plant, especially a monocotyledon having high commercial value but difficult for transformation, the complementation test analysis of genom function, the construction of a genom library for the analysis of genom function, the efficient search for useful gene, etc. The vector can be produced by introducing a hygromycin-resistant gene having 35S promoter and nopalineteminator and free from EcoRI incision site in the gene into an EcoRI site of a T-DNA of a binary vector and inserting a β -glucuronidase gene and an Ri plasmid of Rhizobium into the vector.

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